

WHAT WE CLAIM IS:

1. A holographic viewing device in which a computer-generated hologram constructed as a transmission Fourier transform hologram is fitted in a frame member,  
5 wherein at least one of phase information and amplitude information recorded in a certain predetermined peripheral site of the computer-generated hologram relative to an input pattern reconstructible from the computer-generated hologram is removed.
- 10 2. The holographic viewing device according to claim 1, wherein the computer-generated hologram comprises a phase hologram, and the phase information recorded in a certain predetermined peripheral site of the computer-generated hologram relative to an input pattern  
15 reconstructible from the computer-generated hologram is removed.
3. The holographic viewing device according to claim 1, wherein the computer-generated hologram has a phase distribution multivalued to four or more levels.
- 20 4. The holographic viewing device according to claim 1, wherein the computer-generated hologram is in a rectangular matrix form in which a number of minuscule computer-generated hologram elements having identical characteristics are set together in parallel, and a  
25 minuscule computer-generated hologram element is removed from any one of pre-determined four corners of the computer-generated hologram.
5. The holographic viewing device according to

any one of claims 1 to 4, wherein input image patterns recorded in computer-generated holograms fitted in right and left frames of the viewing device have binocular parallax.

5           6.     A computer-generated hologram for a holographic viewing device, which is constructed as a transmission Fourier transform hologram for the holographic viewing device, wherein at least one of phase information and amplitude information recorded in a  
10 certain predetermined peripheral site of the computer-generated hologram relative to an input pattern reconstructible from the computer-generated hologram is removed.

          7.     The computer-generated hologram according to  
15 claim 6, wherein the computer-generated hologram comprises a phase hologram, and the phase information recorded in a certain predetermined peripheral site of the computer-generated hologram relative to an input pattern reconstructible from the computer-generated hologram is  
20 removed.

          8.     The computer-generated hologram according to claim 7, wherein a phase distribution is multivalued to four or more levels.

          9.     The computer-generated hologram according to  
25 any one of claims 6 to 8, wherein the computer-generated hologram is in a rectangular matrix form in which a number of minuscule computer-generated hologram elements having identical characteristics are set together in parallel,

and a minuscule computer-generated hologram element is removed from any one of predetermined four corners of the computer-generated hologram.